IL5RA Antibody – Rabbit Polyclonal

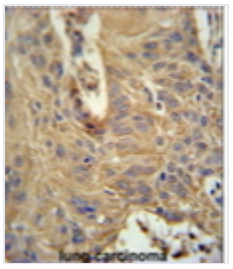
PRODUCT OVERVIEW

Product Name	IL5RA, Polyclonal Antibody
Full Product Name	IL5RA, NT (IL5RA, IL5R, Interleukin-5 receptor subunit alpha, CDw125, CD125)
Product Gene Name	anti-IL5RA antibody
Product Synonym Names	Anti -IL5RA, NT (IL5RA, IL5R, Interleukin-5 receptor subunit alpha, CDw125, CD125)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human, mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	47,685 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (3108008..3152058, complement). Location: 3p26-p24
OMIM	147851
3D Structure	ModBase 3D Structure for Q01344
Immunogen	IL5RA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 57-87 amino acids from the N-terminal region of human IL5RA.
Product Categories/Family for anti-IL5RA antibody	Antibodies; Abs to CD Markers
Applications Tested/Suitable for anti-IL5RA antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-IL5RA antibody	Suitable for use in Western Blot, Immunohistochemistry, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:50-100 Flow Cytometry: 1:10-50
Related Product Information for anti-IL5RA antibody	IL5RA is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4.
Other Notes	Small volumes of anti-IL5RA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

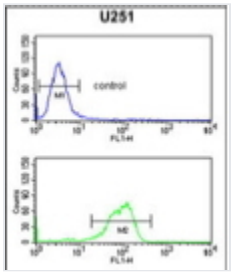
Searchable Terms for IL5RA purchase	MBS6013593 is an antibody targeting IL5RA. Also known as IL5RA, NT (IL5RA, IL5R, Interleukin-5 receptor subunit alpha, CDw125, CD125). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-IL5RA antibody
Western Blot analysis of MDA-MB-453 cell line,lysate (35ug/ml) using MBS6013593 at 1:1000.



Immunohistochemistry (IHC) of anti-IL5RA antibody
Immunohistochemistry analysis of formalin fixed and paraffin embedded human lung carcinoma using MBS6013593 followed by peroxidase conjugation of the secondary antibody and DAB staining.



Flow Cytometry (FC/FACS) of anti-IL5RA antibody
Flow cytometric analysis of U251 cells using MBS6013593 (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL5RA. It may not necessarily be applicable to this product.

NCBI GI #	340745316
NCBI GeneID	3568
NCBI Accession #	NP_001230028.1
UniProt Primary Accession #	Q01344
UniProt Secondary Accession #	Q14633; Q15469; Q6ISX9; B3IU77; B4E2G0
UniProt Related Accession #	Q01344
GenBank Nucleotide #	NM_001243099.1
NCBI Official Full Name	interleukin-5 receptor subunit alpha isoform 4
NCBI Official Synonym Full Names	interleukin 5 receptor, alpha
NCBI Official Symbol	IL5RA
NCBI Official Synonym Symbols	IL5R; CD125; CDw125; HSIL5R3
UniProt Protein Name	Interleukin-5 receptor subunit alpha
UniProt Synonym Protein Names	CDw125
Protein Family	Interleukin-5 receptor
UniProt Gene Name	IL5RA
UniProt Synonym Gene Names	IL5R; IL-5 receptor subunit alpha; IL-5R subunit alpha; IL-5R-alpha; IL-5RA
UniProt Entry Name	IL5RA_HUMAN

NCBI Protein Information	interleukin-5 receptor subunit alpha; CD125 antigen; IL-5R subunit alpha; IL-5 receptor subunit alpha; interleukin 5 receptor type 3; interleukin-5 receptor alpha chain
NCBI Summary for IL5RA	The protein encoded by this gene is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Several alternatively spliced transcript variants encoding four distinct isoforms have been reported. [provided by RefSeq, Jul 2011]
UniProt Comments for IL5RA	IL5RA: This is the receptor for interleukin-5. The alpha chain binds to IL5. Belongs to the type I cytokine receptor family. Type 5 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, cytokine; Membrane protein, integral Chromosomal Location of Human Ortholog: 3p26-p24 Cellular Component: extracellular space; integral to membrane; plasma membrane Molecular Function: protein binding; interleukin-5 receptor activity Biological Process: cell proliferation; regulation of interleukin-5 production; inflammatory response to antigenic stimulus; signal transduction
Research Articles on IL5RA	**1.** The study reports the crystal structure of dimeric IL-5 in complex with the IL5RA extracellular domains.
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